



COC# 218

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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CHAIN OF CUSTODY REPORT

Work Order #: M108014

CLIENT: BRISTOL		INVOICE TO: BRISTOL		TURNAROUND REQUEST in Business Days*					
REPORT TO: ANNE KRANAWETTER				Organic & Inorganic Analyses					
ADDRESS: AMCHITKA, AK				10 7 5 4 3 2 1 <1					
PHONE: 907-770-0974 FAX: 770-0975		P.O. NUMBER: 21090		STD. Petroleum Hydrocarbon Analyses					
PROJECT NAME: AMCHITKA		REQUESTED ANALYSES		5 4 3 2 1 <1					
PROJECT NUMBER: 21090				STD. Please Specify					
SAMPLED BY:				OTHER					
				*Turnaround Requests less than standard may incur Rush Charges.					
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PCBS EPA 8082	Metals *			MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. OIAMTP08 SL	8/10/01 1450	X	X			S	2		
2. OIAMTP09 SL	8/10/01 1458	X	X			S	2		
3. OIAMTP10 SL	8/10/01 1505	X	X			S	2		
4. OIAMTP11 SL	8/10/01 1510	X	X			S	2		
5. OIAMTP12 SL	8/10/01 1520	X	X			S	2		
6. OIAMTP13 SL	8/10/01 1525	X	X			S	2		
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
RELINQUISHED BY: Charlie Marshall		DATE: 8/10/01		RECEIVED BY: Craig Brudie		DATE: 8/10/01			
PRINT NAME: Charlie Marshall		FIRM: BRISTOL		PRINT NAME: Craig Brudie		FIRM: NCA		TIME: 1608	
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:			
PRINT NAME:		FIRM:		PRINT NAME:		FIRM:		TIME:	
ADDITIONAL REMARKS: Post Lagoon Treatment PAD soils samples									
COC REV 3/99 * Metals - As per SAA, Arsenic, Cadmium, Chromium, Lead, Selenium, Silver, Vanadium, Mercury									
								TEMP: 9.4	PAGE 1 OF 1

218 (1685x2175x256 .jpg)



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541.383.9310 fax 541.382.7588

17 August, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/13/01 12:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joy D. Chang For Jerry Orlando
Project Manager/QA

Work Orders included in this report:

P1H0333



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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/17/01 14:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTP08SL	P1H0333-01	Soil	08/10/01 14:50	08/13/01 12:00
01AMTP09SL	P1H0333-02	Soil	08/10/01 14:58	08/13/01 12:00
01AMTP10SL	P1H0333-03	Soil	08/10/01 15:05	08/13/01 12:00
01AMTP11SL	P1H0333-04	Soil	08/10/01 15:10	08/13/01 12:00
01AMTP12SL	P1H0333-05	Soil	08/10/01 15:20	08/13/01 12:00
01AMTP13SL	P1H0333-06	Soil	08/10/01 15:25	08/13/01 12:00

North Creek Analytical - Portland

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Joy D. Chang (For Jerry Orlando, Project Manager/QA)

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/17/01 14:36

Total Metals per EPA 6000/7000 Series Methods

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTP08SL (P1H0333-01) Soil						Sampled: 08/10/01 Received: 08/13/01			
Arsenic	5.42	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	3.33	0.500	"	"	"	"	"	"	
Lead	7.85	0.500	"	"	"	"	"	"	
Selenium	0.745	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMTP09SL (P1H0333-02) Soil						Sampled: 08/10/01 Received: 08/13/01			
Arsenic	6.75	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	2.34	0.500	"	"	"	"	"	"	
Lead	9.36	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMTP10SL (P1H0333-03) Soil						Sampled: 08/10/01 Received: 08/13/01			
Arsenic	7.93	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	2.91	0.500	"	"	"	"	"	"	
Lead	8.83	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMTP11SL (P1H0333-04) Soil						Sampled: 08/10/01 Received: 08/13/01			
Arsenic	7.99	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	2.10	0.500	"	"	"	"	"	"	
Lead	10.1	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	

North Creek Analytical - Portland

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Joy D. Chang For Jerry Orlando, Project Manager/QA

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Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/17/01 14:36

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTP12SL (P1H0333-05) Soil						Sampled: 08/10/01 Received: 08/13/01			
Arsenic	8.09	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	2.30	0.500	"	"	"	"	"	"	
Lead	9.42	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	
01AMTP13SL (P1H0333-06) Soil						Sampled: 08/10/01 Received: 08/13/01			
Arsenic	4.76	0.500	mg/kg dry	1	EPA 6020	08/13/01	08/15/01	1081294	
Cadmium	ND	0.500	"	10	"	"	"	"	
Chromium	8.70	0.500	"	"	"	"	"	"	
Lead	4.83	0.500	"	"	"	"	"	"	
Selenium	ND	0.500	"	1	"	"	"	"	
Silver	ND	0.500	"	10	"	"	"	"	

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/17/01 14:36

Mercury by EPA Method 1631 North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTP08SL (P1H0333-01) Soil						Sampled: 08/10/01 Received: 08/13/01			
Mercury	0.0501	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMTP09SL (P1H0333-02) Soil						Sampled: 08/10/01 Received: 08/13/01			
Mercury	0.0246	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMTP10SL (P1H0333-03) Soil						Sampled: 08/10/01 Received: 08/13/01			
Mercury	0.0352	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMTP11SL (P1H0333-04) Soil						Sampled: 08/10/01 Received: 08/13/01			
Mercury	0.0432	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMTP12SL (P1H0333-05) Soil						Sampled: 08/10/01 Received: 08/13/01			
Mercury	0.0245	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	
01AMTP13SL (P1H0333-06) Soil						Sampled: 08/10/01 Received: 08/13/01			
Mercury	0.0186	0.00100	mg/kg dry	1	EPA 1631	08/14/01	08/17/01	1081295	

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/17/01 14:36

Percent Dry Weight (Solids) per Standard Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTP08SL (P1H0333-01) Soil						Sampled: 08/10/01 Received: 08/13/01			
% Solids	82.6	1.00	% by Weight	1	NCA SOP	08/14/01	08/15/01	1081318	
01AMTP09SL (P1H0333-02) Soil						Sampled: 08/10/01 Received: 08/13/01			
% Solids	88.8	1.00	% by Weight	1	NCA SOP	08/14/01	08/15/01	1081318	
01AMTP10SL (P1H0333-03) Soil						Sampled: 08/10/01 Received: 08/13/01			
% Solids	86.6	1.00	% by Weight	1	NCA SOP	08/14/01	08/15/01	1081318	
01AMTP11SL (P1H0333-04) Soil						Sampled: 08/10/01 Received: 08/13/01			
% Solids	86.6	1.00	% by Weight	1	NCA SOP	08/14/01	08/15/01	1081318	
01AMTP12SL (P1H0333-05) Soil						Sampled: 08/10/01 Received: 08/13/01			
% Solids	87.8	1.00	% by Weight	1	NCA SOP	08/14/01	08/15/01	1081318	
01AMTP13SL (P1H0333-06) Soil						Sampled: 08/10/01 Received: 08/13/01			
% Solids	86.1	1.00	% by Weight	1	NCA SOP	08/14/01	08/15/01	1081318	

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/17/01 14:36

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081294 - EPA 3050

Blank (1081294-BLK1)

Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	ND	0.500	mg/kg
Cadmium	ND	0.500	"
Chromium	ND	0.500	"
Lead	ND	0.500	"
Selenium	ND	0.500	"
Silver	ND	0.500	"

LCS (1081294-BS1)

Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	10.1	0.500	mg/kg	10.0	101	80-120
Cadmium	10.2	0.500	"	10.0	102	80-120
Chromium	10.2	0.500	"	10.0	102	80-120
Lead	9.95	0.500	"	10.0	99.5	80-120
Selenium	9.91	0.500	"	10.0	99.1	80-120
Silver	4.76	0.500	"	5.00	95.2	80-120

Duplicate (1081294-DUP1)

Source: P1H0333-01

Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	8.34	0.500	mg/kg dry	5.42	42.4	40	Q-14
Cadmium	ND	0.500	"	ND		40	
Chromium	6.34	0.500	"	3.33	62.3	40	Q-14
Lead	9.56	0.500	"	7.85	19.6	40	
Selenium	0.551	0.500	"	0.745	29.9	40	
Silver	ND	0.500	"	ND	11.0	40	

Matrix Spike (1081294-MS1)

Source: P1H0333-01

Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	16.3	0.500	mg/kg dry	12.1	5.42	89.9	75-125
Cadmium	11.1	0.500	"	12.1	ND	91.7	75-125
Chromium	15.2	0.500	"	12.1	3.33	98.1	75-125
Lead	17.8	0.500	"	12.1	7.85	82.2	75-125
Selenium	12.4	0.500	"	12.1	0.745	96.3	75-125
Silver	5.55	0.500	"	6.05	ND	90.0	75-125

North Creek Analytical - Portland

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Joy D. Chang For Jerry Orlando, Project Manager/QA

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/17/01 14:36

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081294 - EPA 3050

Matrix Spike (1081294-MS2)

Source: P1H0253-01

Prepared: 08/13/01 Analyzed: 08/15/01

Arsenic	16.2	0.500	mg/kg dry	13.0	5.09	85.5	75-125			
Cadmium	13.2	0.500	"	13.0	ND	101	75-125			
Chromium	22.5	0.500	"	13.0	14.4	62.3	75-125			
Lead	16.6	0.500	"	13.0	4.22	95.2	75-125			Q-14
Selenium	13.7	0.500	"	13.0	ND	104	75-125			
Silver	6.32	0.500	"	6.51	ND	96.3	75-125			

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Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/17/01 14:36

Mercury by EPA Method 1631 - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1081295 - EPA 7471									
Blank (1081295-BLK1)									
Mercury	ND	0.00100	mg/kg						Prepared: 08/14/01 Analyzed: 08/17/01
LCS (1081295-BS1)									
Mercury	0.00990	0.00100	mg/kg	0.0100		99.0 85-115			Prepared: 08/14/01 Analyzed: 08/17/01
Duplicate (1081295-DUP1)									
Mercury	0.0100	0.00100	mg/kg dry		0.0110		9.52	20	Source: P1H0252-04 Prepared: 08/14/01 Analyzed: 08/17/01
Matrix Spike (1081295-MS1)									
Mercury	0.0221	0.00100	mg/kg dry	0.0128	0.0110	86.7 75-125			Source: P1H0252-04 Prepared: 08/14/01 Analyzed: 08/17/01
Matrix Spike (1081295-MS2)									
Mercury	0.0494	0.00100	mg/kg dry	0.0115	0.0432	53.9 75-125			Source: P1H0333-04 Prepared: 08/14/01 Analyzed: 08/17/01

Q-02

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Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/17/01 14:36

Percent Dry Weight (Solids) per Standard Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081318 - Dry Weight

Duplicate (1081318-DUP1)		Source: P1H0266-02		Prepared: 08/14/01 Analyzed: 08/15/01						
% Solids	87.6	1.00 % by Weight		87.9		0.342		20		
Duplicate (1081318-DUP2)		Source: P1H0333-04		Prepared: 08/14/01 Analyzed: 08/15/01						
% Solids	87.5	1.00 % by Weight		86.6		1.03		20		
Duplicate (1081318-DUP3)		Source: P1H0358-02		Prepared: 08/14/01 Analyzed: 08/15/01						
% Solids	68.6	1.00 % by Weight		68.2		0.585		20		

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Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter


Reported:
08/17/01 14:36

Notes and Definitions

- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- Q-14 The Spike Recovery and/or RPD is outside of control limits due to a non-homogeneous sample matrix.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

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